

comparing the actual modulation and coding scheme level with a predefined minimum threshold for the modulation and coding scheme level, and

adapting the predefined system bandwidth based on the result of the comparison of the actual block error rate with a predefined threshold and based on the result of the comparison of the actual modulation and coding scheme level with a predefined minimum threshold for the modulation and coding scheme level.

3. The method as set forth in claim 1, wherein, if the actual block error rate is below the predefined threshold, adapting the predefined system bandwidth corresponds to increasing the predefined system bandwidth.

4. The method as set forth in claim 3, further comprising determining an actual modulation and coding scheme level used for the uplink communication,

comparing the actual modulation and coding scheme level with a predefined minimum threshold for the modulation and coding scheme level, and

increasing the predefined system bandwidth, if the actual modulation and coding scheme level is above the predefined minimum threshold.

5. The method as set forth in claim 1, wherein, if the actual block error rate is above the predefined threshold, adapting the predefined system bandwidth corresponds to reducing the predefined system bandwidth.

6. The method as set forth in claim 5, further comprising determining an actual modulation and coding scheme level used for the uplink communication,

comparing the actual modulation and coding scheme level with a predefined minimum threshold for the modulation and coding scheme level, and

reducing the predefined system bandwidth, if the actual modulation and coding scheme level is equal or below the predefined minimum threshold.

7. The method as set forth in claim 1, wherein a communication channel between the user equipment and the base station is divided into a plurality of physical resource blocks and wherein the predefined system bandwidth corresponds to

a predefined number of physical resource blocks of the plurality of resource blocks being allocated to the uplink communication channel.

8. The method as set forth in claim 7, wherein the predefined number of physical resource blocks being allocated to the uplink communication channel is adaptable based on the results of the comparisons.

9. The method as set forth in claim 1, wherein the block error rate is determined based on measurements performed by the base station.

10. The method as set forth in claim 1, wherein adapting the predefined system bandwidth is further based on a power headroom report measurement.

11. The method as set forth in claim 1, the method further comprising adapting the modulation and coding scheme used for the uplink communication based on an outer loop link adaptation.

12. A base station for adapting a system bandwidth to be used by a user equipment for an uplink communication channel for an uplink communication between the user equipment and the base station within a cell of a cellular network system, wherein the cell is served by the base station, wherein the user equipment is adapted to use a predefined system bandwidth for the uplink communication, the base station comprising

a determination unit being adapted to determine an actual

block error rate of the uplink communication channel,

a comparison unit being adapted to compare the actual block error rate with a predefined threshold, and

an adaptation unit being adapted to adapt the predefined system bandwidth based on the result of the comparison.

13. A user equipment, the user equipment being adapted to communicate with a base station as set forth in claim 12.

14. A cellular network system for adapting a system bandwidth to be used by a user equipment for an uplink communication channel for an uplink communication between the user equipment and a base station, the cellular network system comprising at least one base station as set forth in claim 12.

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